

Historic, Archive Document

Do not assume content reflects current scientific knowledge, policies, or practices.

Return Postage Guaranteed
I. L. RADWANER SEED CO., Inc.
115 BROAD STREET
NEW YORK, N. Y.

Radway's
SINCE
1873

LATEST MARKET NEWS
JOBBER NO. 18

James H. ...

— — — — —

HORTICULTURAL CROPS & DISEASES
BUREAU OF PLANT INDUSTRY
U. S. DEPT. OF AGRICULTURE
WASHINGTON, D. C.

Sec. 435½, P. L. & R.

U. S. POSTAGE

PAID

New York, N. Y.

Permit No. 2686



62.61

TESTED

Radway's

SEEDS

SINCE
1875

LAWN GRASS

"ALWAYS DEPENDABLE"

TRADE PRICE LIST No. 18

January 1932

TO JOBBERS ONLY

I. L. RADWANER SEED CO., INC. NEW YORK

115 BROAD STREET

DISTRIBUTORS

Telephone: BOWling Green 9-3373

Cleaning and Shipping Departments
B. & O. Pier 21 East River, New York
Staten Island, New York
Cincinnati, Ohio

Our terms: No claims accepted after seeds are planted, we don't guarantee purity and germination. Seeds to be tested by buyer and to be returned at once if not satisfactory
Quotations subject to change without notice, all sales and prices quoted basis present rate duty if any change same for buyers account

Use only ORIGINAL and GENUINE "CENTRAL PARK" Lawn Seed direct from the REFINERS who
Reg. U. S. Pat. Office, No. 78620
own the basic U. S. TRADE MARK BEWARE OF IMITATIONS!

"CENTRAL PARK" PRIME

Code A
Per 100 lbs.
100 lb. bag... \$11.00
Smaller bag... 13.00
Consumer pays. 26.00

"CENTRAL PARK" CHOICE

Code E
100 lb. bag... \$19.00
Smaller bag... 21.00
Consumer pays. 42.00

"GOLFGREEN"

Code I
100 lb. bag... \$50.00
Smaller bag... 52.00
Consumer pays. 104.00

ALL SOIL BRAND

"CENTRAL PARK" Competition

Code AA
A cheap seed made to meet
competition.
Grows fast—don't last
100 lb. bag... \$ 9.00
Smaller bag... 11.00
Consumer pays. 22.00

FRED RADWAY SAYS:

This is the beginning of the end—of
"The Sawdust Trail"

"Chaff—sand and sawdust versus
Highgrade tested but expensive lawn seed"
"Quality will survive the pain suffered by
the price."

Price per 100 lbs.

"CENTRAL PARK"	Prime	\$11.00
Brand Reg. U. S. Pat.	Medium . . .	16.00
Office No. 78620	Choice . . .	19.00
(Beware of imitations.)	Fancy . . .	22.00
	Extra . . .	29.00
Luxorlawn		15.00
Shadylawn	Prime . . .	20.00
	Choice . . .	25.00
	Fancy . . .	31.00
	Jersey No. 3	40.00
Sunshine		27.00
Frenchlawn		32.00
Golfgreen		50.00
Fairway Mixture Choice		35.00
Bunker Mixture Golf		40.00
Putting Green		60.00
Putting Green Bent, Formula		95.00
Jersey Standard No. 1		35.00
	No. 2	65.00
	No. 4	45.00
Pasture Mixture		15.00
White Clover	Prime . . .	35.00
	Choice . . .	40.00

Prices in 100 lbs. Bulk
Smaller Bags 2c per lb. more

We sell SEEDS for a GOLF
COURSE or a
CANARY BIRD

"LUXORLAWN"

Code BB

Per 100 lbs.

100 lb. bag \$15.00
Smaller bag 17.00
Consumer pays 34.00

"SHADYLAWN" PRIME

Code EE

100 lb. bag . . . \$20.00
Smaller bag . . . 22.00
Consumer pays. 44.00



Code DD

100 lb. bag \$27.00
Smaller bag 29.00
Consumer pays 58.00

Better Mixtures

Higher Prices

Better Crops!

SOME BRANDS ALSO PACKED IN PINT BOXES—A 10c SELLER

Radway's

JOBBER'S PRICE LIST No. 18.

MIXED LAWN GRASS

HARDWARE DIVISION

FLORIST AND NURSERY DIVISION

ASK FOR CARLOT DISTRIBUTOR'S PROPOSITION

Radway's

CENTRAL PARK

Registered U. S. Patent Office, June 10th, 1910. No. 78620

BEWARE OF IMITATIONS!

CODE	Price to Consumers—Double BRAND	FORMULA	Bulk Price Per 100 lb.
AX	CENTRAL PARK PRIME (LEADER)	Red Top—Dom. Rye grass—Timothy White Clover— Ky. Blue Grass	\$11.00
BX	CENTRAL PARK MEDIUM	Ky. Blue Grass— Red Top—Domestic Rye Grass—Timothy	16.00
EX	CENTRAL PARK CHOICE (LEADER)	Red Top—Ky. Blue Grass—Red Fescue Canadian Blue Grass White Clover Timothy	19.00
CX	CENTRAL PARK FANCY	Red Top—Canadian Blue Grass Sheeps Fescue Domestic Rye Grass White Clover Timothy	22.00
D	CENTRAL PARK EXTRA	Red Top— Blue Grass— Domestic Rye Grass Bent Grass Red Fescue	29.00
AAX	CENTRAL PARK SUB REGISTERED Competition Brand	Domestic Rye Grass Timothy—Red Top White Clover	9.00
BBX	LUXORLAWN (LEADER)	Red Top—Domestic Rye Grass—Timothy White Clover— Blue Grass— Red Fescue—	15.00
DD	SUNSHINE (LEADER)	Ky. Blue Grass Canadian Blue Grass Red Top—Red Fescue—Colonial Bent—Domestic Rye Grass	27.00
EEX	SHADYLAWN PRIME (LEADER)	Poa Trivialis— Canadian Blue Grass Timothy—Domestic Rye Grass—Red Top White Clover	20.00
CCX	SHADYLAWN CHOICE	Poa Trivialis—Fescue Canadian Blue Grass Domestic Rye Grass White Clover—Red Top Timothy	25.00
CCCX	SHADYLAWN FANCY	Poa Trivialis—Red Top—Canadian Blue Grass Red Fescue Timothy—Domestic Rye White Clover	31.00

2c per Lb. more if Seeds in Smaller Bags than 100
lbs. sacks—account of cost of material & labor.

TURF GRASS MIXTURES

OF THE BETTER KIND

Sold in bulk only. No small bags.

CODE	SOIL	BRAND	FORMULA	Bulk Price Per 100 lb.
BBBX	Wet Clay Acid	STANDARD LAWN	Red Top—Rye Grass Timothy—Ky. Blue Gr Canadian Blue Grass White Clover	\$16.00
CCCCX	Wet Clay Acid	FRENCH CLOVER LAWN	Red Top—Rye Grass Timothy—Canadian Blue Gr. Sheeps Fes. Poa Triv.—White Cl.	22.00
F.	Moist Rich Alkaline	FRENCH LAWN	Red Top Ky. Blue Grass Chewing Fescue	32.00
I	Moist or Dry Acid Sandy	GOLFGREEN (LEADER)	Red Top Creeping Bent Ky. Blue Grass Chewing Fescue	\$50.00

WHITE CLOVER SEED

Prime seed is a mixture of white clover alsyke and Timothy.
Choice contains alsyke. The extra fancy contains small
quantities of alsyke.

P	50 in carton 100 in bag 20 in bag 10 in bag	PRIME	½ lb. packages 1 " " 5 " " 10 " " 100 " "	\$35.00
Q	100 in Bag 20 in Bag 10 in bag	CHOICE	1 lb. packages 5 " " 10 " " 100 " "	40.00
R	Bulk Only	EXTRA FANCY	220 pound bags only	50.00

WE are Official Distributors to the Seed Trade
in the East for Canadian Government sealed and
certified Prince Edward Island, Seaside Creeping
and Velvet Bent. Also Oregon Sealed Coos Bent.

All our brands are Registered or applied for at
Pat. Office.



Radway's

SINCE 1875

Fine Bent Grasses



A BENT STORY!

The wisdom of ages limited the buying power of the average public, therefore **LAWN GRASS SEED** is just a necessary evil expenditure to the garden variety public.

BUT—at least **"KNOW WHAT YOU SOW"** for your hard earned greenbacks.

Average cheap lawn mixtures, with over 5% Timothy hayseed, Ryegrass or Meadow fescue, will not make a velvety turf. Will only cover bare spots temporarily, grow fast and vanish quickly. Good blended lawn grass seed, grows slow—lasts long.

YOUR—pocketbook will decide the kind of lawn you get. The cheap mixtures are **also** good, but you have to reseed every year—so choose your weapons.

Although we sell cheap lawn mixtures as a measure of business competition, we only recommend the, better grades, higher priced, the ones with **BLUEGRASS, REDTOP** and **BENT** predominating, and then, work like

HELEN B. HAPPY and you'll get a **LAWN**.

"Why do I want a bent grass lawn?"

Answer: Because if I live in a region of acid soils bent is not only the most beautiful, but the easiest turf grass to produce and care for. If my soil is alkaline, because I want the best and am willing to go to a little extra trouble to get it.

Answer today to the same question: Because bent is the most beautiful of the turf grasses, is drought resistant, and will thrive anywhere except in the Far South, on either acid or alkaline soils, if the following simple instructions are followed:

Many of our friends write us:

"I have heard so much about creeping bent, why do you recommend Prince Edward Island Bent which is a non-creeper?"

Because the creeping varieties are somewhat better adapted to putting greens, which are cut and watered daily. Creeping Bent if neglected will form a tangled mass of surface growth instead of compact turf. Prince Edward Island bent produces its leaves near the base and spreads by underground root stocks instead of surface runners. Prince Edward Island Bent is essentially a dwarf grass and comes closer to the humorist's ideal of a lawn grass that grows three inches high and then stops than any other grass. Prince Edward Island Bent is native to dry soils and needs watering only in dry periods.

"But suppose I prefer creeping bent and can give it plenty of water and attention?"

Fine! Seaside Creeping Bent (*Agrostis palustris*, *A. maritima*) seed will produce a wonderful creeping bent lawn at very moderate cost and will require less water than vegetative strains. It requires a little more water and cutting than Prince Edward Island Bent.

"Will bent drive out weeds?"

Any well nourished grass will compete strongly with weeds. It is a fundamental law that two bodies cannot occupy the same space at the same time, so if well nourished grass occupies the entire lawn surface, weeds will

*When a fellow can't
do-what he wants to,
he is suppressed*

(question) —

*Can you afford
LAWN GRASS
of the better kind?*

have very little chance. From recent experiments it seems that most of our bad turf weeds are lovers of alkaline soils and that the acidity obtained from high nitrogen fertilizer which encourages bent discourages weeds.

"I have heard that bent lawns are very expensive. Are they?"

Vegetative or stolen planted lawns are expensive both from cost of stolons and labor standpoint. Bent seed costs no more to the square foot than good lawn mixtures, as the rate of seeding is much lower.

"Will Prince Edward Island Bent do well in shady or partially shady places?"

Prince Edward Island Bent will thrive in partially shaded places but you must be sure to use good fertilizer two or three times a year.

A FEW DO'S

Use good fertilizer.

Sow 2 pounds of Prince Edward Island Bent Seed to 1,000 square feet mixed with 4 or 5 times its volume of sand or humus.

Should large brown patch appear a little Semesan, obtained from any seedsman, will control.

Prince Edward Island Bent is virtually immune to small brown patch.

Golf clubs should add 5 to 10 per cent of Prince Edward Island Bent in their Fairway Mixture to be used on trees and approaches. It will only raise the cost of your mixture \$5.00 to \$6.00 an acre.

A FEW DON'TS

Don't expect Prince Edward Island Bent to penetrate a half inch of hard soil if covered too deeply.

Don't merely ask for bent seed. Ask for Certified Prince Edward Island, New Brunswick Creeping, Seaside Creeping or Certified Velvet Bent Seed.

Don't expect Prince Edward Island Bent to perform a miracle.

— But —

A little fertilizer + a little good soil + a little care in seeding = A LAWN OF PUTTING GREEN BEAUTY.

PROTECTION ON MIXED LAWN SEED

A record of over 55 years unvarying satisfaction in various climates and under stringent comparative tests, is the guarantee we offer with RADWAYS Lawn Grass Seed. Its reputation is your recommendation. Unequalled for quality, brilliancy and permanency.

RADWAY'S Lawn Grass Seed is now, always has been, and always will be the standard of Safety and Economy in seed buying.

Every bag of seed sold under the RADWAY label is the BEST possible to produce for the price paid.

Every bag of RADWAY Lawn Grass Seed carries the formula label—labeled for what it actually is and nothing else. You CAN'T make a mistake in buying RADWAYS Lawn Grass Seed.

You can have no better protection in seed buying than the RADWAY name and reputation extending over half a century of fair dealings.

Characteristics of Grass Seeds

Variety	Minimum Purity of Good Seed	Average Germ Year Old	Average Length Vitality Years	Weight Seed Legal Bush	Weight Seed Actual Bush	Yield of Seed Acre Lbs.	No. Seeds Average per Lb.
Bents.....	70	70	3	.....	17	.....	6,000,000
Bluegrass—Ken.....	75-85	40-85	1-2	14	14-28	200-350	2,400,000
Bluegrass—Can.....	75-85	40-85	1-2	14	20-24	200-500	2,400,000
Clover—White.....	98	80	10	60	60-63	200-300	700,000
Fescue—Chew.....	95	70	1	.....	22-25	400-500	700,000
Fescue—Red.....	95	72	1	.....	19-23	200-300	500,000
Fescue—Sheep's.....	93	70	1-2	.....	22-25	200-300	700,000
Fescue—Meadow.....	90	93	2	.....	20-30	200-300	350,000
Red Top.....	95-98	93	6	14	12-40	200-300	4,135,900
Rye Grass—Per.....	98	80	2	.....	21-34	250-500	336,000
Rye Grass—Ital.....	98	80	2	20	21-28	500	285,000
Lawn Grass Mixed.....	70	80	2	20	20-30		

Quantities of Grass Seeds and Stolons to Use

Disappointment traceable to too light seeding is quite frequent. At the same time, we do not recommend much heavier rates of seeding than those listed under "High" in the following table. Excessively generous seeding may be followed by patches of "die-back" in the resulting young turf, due to over-crowding of the plants.

QUANTITIES RECOMMENDED				Minimum	Average	High
(a) Golf Putting Greens						
Separate varieties { German Bent.....Per average green				40 lbs.	60 lbs.	75 lbs.
of Seeds { Chewing's New Zealand Fescue.....Per average green				75 lbs.	100 lbs.	125 lbs.
Mixtures { Special Putting-Green Bent Formula.....Per average green				75 lbs.	85 lbs.	100 lbs.
of Seeds { Standard Putting-Green Mixture.....Per average green				75 lbs.	85 lbs.	100 lbs.
Stolons. 1 square foot of nursery turf for 7 to 10 square feet to be planted.						
(b) Golf Fairways, Polo Fields, Football Gridirons, Diamonds, etc.				150 lbs.	200 lbs.	250 lbs.
Mixtures of Seeds. Per acre.....						
(c) "Rough" on the Golf Course.....50 to 100 lbs. of seeds per acre...						
(d) Tees.....1 pound of seeds per each 100 square feet.....						
(e) Tennis-Courts						
Regulation size, 78 ft. by 36 ft. Seeds.....				15 lbs.	25 lbs.	30 lbs.
Full size, 130 ft. by 65 ft. Seeds.....				50 lbs.	75 lbs.	100 lbs.
Stolons. 1 square foot of nursery turf for each 7 to 10 square feet to be planted.						

Note.—Most of our grass seed mixtures weigh 25 pounds to the measured bushel. One pound of grass seed measures, approximately, 1½ quarts; one quart weights about ¾ pound.
Use one-quarter to one-half the above quantities when renovating existing turf.

Always leave as long a period as possible between preparing new land and sowing seed, or planting stolons, to give an opportunity for weeds to grow and be destroyed.
Well prepared soil, the finest possible seed, or stolons of an approved strain of Bent, are the essentials of good turf.

Turf from Creeping Bent Stolons

Why Use Stolons: The advantages of the vegetative method are that by it we get extreme uniformity of turf, both as to texture and color, and maximum freedom from weeds.
Soil Suitable for the Bents: All the Bents require a well-drained soil, naturally moist, friable, and rich; loams and clay loams are suitable; sand loams are suitable if enriched with rotted manure or mushroom soil; light soil and sands are generally unsuitable.
When to Plant Stolons: Fall is by far the best time. Small areas may be vegetated in the early spring, but it is not recommended that much work with stolons be undertaken after warm weather has set in.
Territory Suitable for the Bents. Generally speaking all the Bents may be grown successfully from the latitude of Washington, D. C., north to the limit of civilization.

A "stolon" or runner of Creeping Bent

(4) A "stolon" or runner of Creeping Bent is able to produce new plants at intervals throughout its length.

PRODUCING A FINE SWARD WITHOUT SEED BY THE VEGETATIVE METHOD

You May Sow Seeds, Too, if you wish. Many turf-producers plant stolons of Creeping Bent and, after covering them with soil, sow seeds of German Bent. If this is done a slightly finer turf is obtained. Use 10 square feet of Creeping Bent turf and ½ pound of German Bent seed to each 100 square feet.
An Important Point. Keep the stolons always slightly moist until you have planted and covered them with soil.
We offer two varieties of Creeping Bent: Washington Bent, and Metropolitan Bent, at \$25 per 100 sq. ft., \$225 per 1,000 sq. ft. (One square foot will furnish enough clipped stolons to plant 7 to 10 square feet.)
Speed with which a Turf may be Obtained: Little difference in time with which turf may be produced from stolons or seed.

SEED CHART

SEED	Weight per Bu.	Use Pounds per Acre	TIME OF SEEDING
Alfalfa.....	60	15-20	March, May—August, September
Alsike.....	60	6-10	February, June—August, November
Barley.....	48	72-96	April—June
Bermuda Grass.....	40	4-6	March—June
Blue Grass.....	14	30-35	February, June—August, October
Buckwheat.....	48	48-60	May—July
Cane, Sorghum.....	50	60-65	May—July
Corn.....	56	8-10	May—July
Corn, Ensilage.....	56	30-35	May—June
Corn, Sweet.....	46	10-15	May—July
Clover, Alfalfa.....	60	15-20	March, May—August, September
Clover, Alsike.....	60	6-10	February, June—August, November
Clover, Burr (Hulled).....	60	15-20	August, November
Clover, Crimson.....	60	15-20	July—October
Clover, Japan.....	25	15-25	February, May
Clover, Red.....	60	10-12	January, April—August, November
Clover, Sweet.....	60	20-30	January, May—July, September
Clover, White.....	60	3-5	March, June—August, October
Kaffir Corn.....	56	20-30	
Lawn Grass.....	25	100-150	February, June—August, October
Leavedeza.....	25	15-25	February, May
Meadow Fescue.....	24	25-35	April, May—August, September
Millet, German.....	50	40-50	May—July

SEED CHART

SEED	Weight Per Bu.	Use Pounds per Acre	TIME OF SEEDING
Millet, Hungarian.....	48	40-50	May—July
Millet, Japanese.....	35	25-40	May—July
Oats.....	32	50-75	March—May
Orchard Grass.....	14	20-25	March, May—August, October
Pasture, Permanent.....	25	20-30	March, June—August, October
Peas, Canada, Broadcast.....	60	90-120	February, April
Peas, Cow, Broadcast.....	60	90-120	May—August
Peas, Cow, Drilled.....	60	45-60	May—August
Rape, Dwarf Essex.....	56	6-10	April—September
Red Top, Solid.....	32	8-12	February, June—September, November
Red Top, Unhulled.....	14	20-30	February, June—September, November
Rye, Spring.....	56	50-65	March—May
Rye, Winter.....	56	70-90	July—November
Rye Grass.....	24	25-35	February, June—August, October
Soy Beans, Broadcast.....	60	60-90	May—August
Soy Beans, Drilled.....	60	30-60	May—August
Sudan.....	40	4-25	April—June
Sunflower.....	22	3-6	May—July
Timothy.....	45	8-12	February, June—August, November
Vetch, Spring.....	60	40-60	March—May
Vetch, Winter.....	60	30-50	August—November
Wheat.....	60	75-90	September—October

We rank as one of the
LARGEST DEALERS IN LAWN SEED

CHARACTERISTIC ADAPTATIONS OF THE MORE IMPORTANT TURF GRASSES

Name of Grass		Time Required to Produce Good Turf	Adaptation of				Uses	Remarks
Scientific	Common		Wet or Dry Soils	Sandy or Clayey Soils	Acid Soils	Cold or Hot Weather		
Agrostis alba or Agrostis palustris or Agrostis stolonifera major	Redtop, marsh white southern, English bent or herd grass	One season	Adapted to wet and tolerant of dry soils	Adapted to clayey soils	Tolerant	Resistant to cold and fairly tolerant of heat	Fairways, greens and lawns	Sod forming habit of growth. Lasts about 1 year under close mowing. Used chiefly as a temporary grass.
Agrostis tenuis or Agrostis capillaris or Agrostis vulgaris	Rhode Island bent, Colonial bent, Brown top, "Golfalawn," "Astoria bent" and "P. E. I. bent"	One season	Adapted to both moist and dry soils	Adapted to clayey and sandy soils if well drained	Tolerant	Resistant to cold and fairly tolerant of heat	Greens, fairways and lawns	Probably used more extensively than any other seeded bent. German mixed bent contains about 75% of it. Sod forming habit of growth.
Agrostis Stolonifera Maritima	Creeping bent, Seaside bent and "Florin"	One season from seed 2 months from stolons	Adapted to moist soils	Adapted to clayey and tolerant of sandy soils	Very tolerant	Resistant to cold but not hot weather	Greens, lawns and fairways	German mixed bent contains about 2% of it. Seaside bent also called Agrostis maritima. Sod forming habit of growth.
Agrostis Canina	Velvet, dog brown bent	One season	Adapted to moist soils	Adapted to clayey soils	Very tolerant	Resistant to cold but not hot weather	Greens and lawns	Adapted to about same region as Kentucky blue grass. German mixed bent contains about 15% of it. Sod forming habit of growth.
Poa pratensis	Kentucky blue	Two seasons	Adapted to moist soils	Adapted to clayey soils	Tolerant if soil is rich and well drained	Resistant to cold but not hot weather	Fairways and lawns	Requires fertile soils and responds to lime treatments. Sod forming habit of growth. Will not stand close mowing.
Poa compressa	Canada blue	Two seasons	Tolerant of dry soils	Adapted to clayey soils		Resistant to cold and tolerant of hot weather	Fairways and roughs	Use only when soil is thin and poor. Does well on rocky or gravelly soils. Not as good as Kentucky blue or redtop on good soils.
Poa trivialis	Rough-stalk meadow grass or bird grass	Two seasons	Adapted to moist soils	Adapted to clayey soils	Tolerant if soil is rich and well drained	Resistant to cold but not hot weather	Fairways and lawns	Best of all grasses for shady lawns. Sod forming habit of growth.
Poa annua	Annual blue grass, spear grass or meadow grass	One season	Adapted to moist soils	Adapted to clayey soils	Tolerant	Resistant to cold but not hot weather	Greens, fairways and lawns	Sod forming habit of growth. The failure of this grass this past season resulted in poor and unplayable greens throughout country.
Festuca rubra	Red fescue	One season	Adapted to moist and tolerant of dry soils	Adapted to sandy loams and tolerant of clayey soils	Tolerant	Resistant to cold and fairly tolerant of heat	Greens fairways and lawns	2 commercial var. of red fescue are creeping r. fescue (F. rubra var. genuina) and New Zealand or Chewings' fescue (F. rubra var. fallax). One of the best grasses for shady lawns, sod. F. habit of growth.
Festuca ovina	Sheep's fescue		Very tolerant of dry soils	Adapted to sandy soils	Tolerant	Resistant to cold and tolerant of heat	Rough	Especially adapted to soils which are thin, sandy and rocky. Bunch forming habit of growth.
Festuca duriuscula	Hard Fescue		Very tolerant of dry soils	Adapted to sandy soils	Tolerant	Resistant to cold and tolerant of heat	Rough	Variety of sheep's fescue. Bunch forming habit of growth.
Festuca caillata or Festuca tenuifolia	Fine-leaved fescue		Tolerant of dry soils	Adapted to sandy soils	Tolerant	Resistant to cold and tolerant of heat	Lawns	Variety of sheep's fescue. Thrives well in shady lawns. Bunch forming habit of growth.

WE SELL GOLF

SUPPLIES - EQUIPMENT - MOWERS

FACTS ON LAWN MANAGEMENT

By Permission of Professor L. S. Dickinson,
Mass. Agricultural College, Amherst, Mass.

(Extract)

SOIL—must be considered in three parts. No. 1 foundation (the earth below the sub soil); No. 2, the sub soil; No. 3, the top soil.

The sub soil is the reservoir from which the grass roots obtain water during periods between rain or artificial watering. It need not have any food value but must be of such physical character that it will retain enough moisture to supply the grass roots. Hard coat ashes six inches deep make an excellent sub soil.

The top soil is valued mainly for the organic matter it contains. Roll and rake soil, and then seed. After sowing, seed should be lightly covered by brushing or raking, and roll lightly.

Lawn mower should be set high, young grass should be well established before any attempt is made to clip it short.

All Bent seeds are very small. All Blue Grass seeds are small. All Fescue seeds are large. All Rye Grass seeds are very large.

Blue Grasses prefer alkaline (sweet) soil. Bents prefer acid (sour) soils. Fescues and Rye Grasses are not so particular.

Timothy is a hay seed very undesirable for lawn grass (used by seed dealers in conjunction with chaff Red Top to cheapen product and to act as filler, shows quick growth but ruins the lawn eventually).

Reprinted from Golfdom and Rutgers University Greenkeeping Short Course.

COOS COUNTY OREGON BENT

STATE SEALED AND CERTIFIED

\$1.35 per lb. in 300 lb. lots

THE GENUINE GRASS SEED FOR FAMOUS GREENS

*We are official distributors wholesale only for
Eastern U. S. of*

**SEASIDE BENT SEED CO.
and J. M. McCullough's Sons Co.**

NITROPHOSKA UREA

15-30-15

	Per Case	To Jobber	To Consumer	
1 lb.	\$8.00	\$0.16	\$ 0.25	50 to a case
5 lb.	5.80	0.58	0.90	10 to a case
10 lb.	4.85	0.97	1.50	5 to a case
25 lb.		1.78	2.75	
50 lb.		3.08	4.75	
100 lb.		6.00	8.00	
142 lb.		9.00	15.00	Urea drum
200 lb.		11.00	18.00	original drum of Nitrophoska

NITROPHOSKA—15—30—15

Nitrophoska 15—30—15, contains 15% nitrogen, 30% phosphoric acid and 15% potash. This grade of Nitrophoska is universally suited for a variety of uses either alone or mixed with other materials.

Nitrophoska can be applied to turf either by spreading separately or by mixing with other materials such as compost, peatmoss.

Nitrophoska is used successfully on many golf courses. A number of the Clubs of the Metropolitan area purchased five or more tons and are using it for fairway and green feeding.

FLORANID (UREA).

Urea containing 46% nitrogen is a fertilizer in which the nitrogen is identical chemically with that in liquid manure. Urea is better than liquid manure, because it is dry, clean, odorless and very concentrated. One hundred pounds furnishes as much nitrogen as 225 pounds of Sulphate of Ammonia.

Urea over a period of five years has proven to be an ideal nitrogen fertilizer for fine turfs in all parts of the country. It gives vigorous rapid growth with excellent color in exceedingly short time. Urea is recommended by the Green Section of the United States Golf Association.

Now that the duty has been removed, it is one of the most economical fertilizers available for golf use.

It can be applied in water, in solution or it can be mixed with any other suitable material. We recommend from one to three pounds for each 1000 square feet of sod, applied at intervals throughout the season as needed. It is also used in conjunction with mercurial compounds for the prevention and treatment of fungus diseases.

FROM AMERICA'S LARGEST EVERGREEN NURSERY

Take advantage of the present popularity of Evergreens by offering collections of Evergreens. Varieties suitable for rock gardens, lawn planting and foundation planting. We will ship direct to your customers under your labels by parcel post prepaid anywhere in the U. S. A. We pay the postage. Copy and cuts for listing in your catalog will be furnished without charge.

Collections include all twice transplanted sizes 8 to 10 inches and 10 to 12 inches. Collections retail delivered to customer for \$4.25 to \$7.25.

Never an Evergreen Bargain like this!

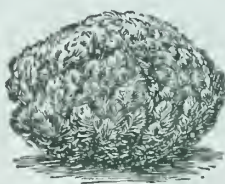
EVERGREEN COLLECTIONS

Everyone wants Evergreen Trees. Their popularity has increased a hundred fold in recent years. Use them for rockeries, foundation or lawn planting, a whole collection for the usual price of one nursery specimen. These are all twice transplanted, sturdy trees (not seedlings) average age, 5 years. Three collections listed below, delivered by Parcel Post prepaid. Safe arrival guaranteed. Delivery March 15th to May 1st, July — November.

	Jobber	Consumer Pays
Lawn Collection	\$5.50	\$11.00
5 White Spruce.....		8-10"
5 American Arborvitae.....		10-12"
5 Douglas Fir.....		8-10"
5 Mugho Pine.....		6-8"
Rock Garden Collection	\$4.25	\$ 8.50
1 Pfitzer Juniper.....		8-10"
1 Savin Juniper.....		8-10"
1 Mugho Pine.....		6-8"
1 Woodward Arborvitae.....		10-12"
1 Douglas Fir.....		10-12"
1 Pyramidal Arborvitae.....		10-12"
1 White Spruce.....		10-12"
1 American Arborvitae.....		10-12"
Foundation Collection	\$7.25	\$14.50
2 Pfitzer Juniper.....		10-12"
2 Mugho Pine.....		10-12"
2 Pyramidal Arborvitae.....		12-18"



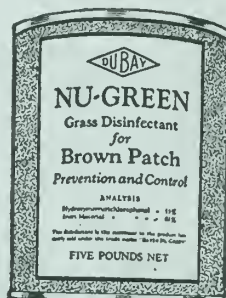
White Spruce



Mugho Pine



American Arborvitae



NU-GREEN

A Grass Disinfectant for Brown-Patch
 Prevention and Control

Sizes of Packages	Retail Price Per Package	Dealer Price	Packages Per Case
3-oz. tin	.50	\$ 4.00 per doz.	3 doz.
1-lb. "	2.00	16.00 " "	2 " "
5-lb. "	9.00	72.00 " "	1 1/2 " "
25-lb. pail	37.50	30.00 per pkg.	1 only
100-lb. drum	145.00	116.00 " "	1 " "
300-lb. "	420.00	336.00 " "	1 " "

Pasture Mixture

Light Soil.....	\$35.00
Medium Soil.....	40.00
Heavy Soil.....	45.00
Second Grade.....	15.00

FERTILIZERS

	Ton	Bag	Consumer Pays per 100 lbs.
Humus.....	\$20.00	\$1.75	\$3.50
Peat Moss.....		2.50	5.00
Cotton Seed Meal.....		3.75	5.00
Wood Ashes.....		3.50	5.00
Arsenate of Lead.....		18.00	25.00
Scotch Soot.....		4.00	6.00
Bordeaux Mixture.....		20.00	30.00
Tobacco Stems.....		1.75	3.00

All F.O.B. Factory.

MASTER PLANTER

Will spread fertilizer, top dressing, compost or grass seed efficiently and quickly, with minimum of labor. Will scatter contents evenly, close to the ground without waste. Merely fill the hopper holding twenty five or fifty pounds, set your gage and draw it over the soil. Walk as fast as you can. Must be seen to be appreciated. Shipping weight 16 to 25 pounds. Postage extra. Cost fob factory, New York.

36" machine double disc wheels	\$17.00
24" " " " " "	13.25
16" " single " " "	9.50



Radway's

JOBBER'S PRICE LIST No. 18.

JANUARY 1932

GOLF CLUB DIVISION

ARCHITECTS DIVISION

SPECIAL LAWN MIXTURES

For Estates, Golf Courses, Aviation Fields, Polo

CODE	SOIL	BRAND	FORMULA	Bulk price per 100 lbs.
FF	Moist Rich Alkaline	TERACE SOD	Chewing Fescue Ky. Blue Grass Red Top	\$40.00
FFF	Moist or Dry Alkaline	BUNKER BANK	Ky. Blue Grass Red Top— N. Z. Red Fescue	\$30.00
G	Acid Dry or Moist	BUNKER-GOLF	Red Top Bromus Rye Grass Ky. Blue Grass	\$40.00
FFFF	Dry Alkaline	FAIRWAY PRIME	N. Z. Red Fescue Ky Blue Grass Red Top	\$25.00
H	All Soils	FAIRWAY CHOICE Athletic Field	Ky. Blue Grass Red Top Creeping Bent Rye Grass	\$35.00
HH	All Soils	FAIRWAY FANCY Sunny South	Red Top Colonial Bent Ky. Blue Grass Rye Grass	\$40.00
J	Wet Clay Acid	PUTTING GREEN	Red Top Creeping Bent Chewing Fescue	\$50.00
JJ	Wet Clay Acid	PUTTING GREEN BENT	Colonial Bent Creeping Bent Red Top Chewing Fescue	\$65.00
K	Wet or Dry-very Acid	PUTTING GREEN All Bent	Mixed Bents	\$95.00
5F	Moist or Dry Alkaline	TEE MIXTURE	Red Fescue Ky. Blue Grass Red Top	\$40.00
O	Moist Alkaline	TEE-YARROW	Yarrow-Bent Fescue-Rye Grass Red Top	\$60.00
GG	Acid Dry	AVIATION	Red Top—Rye Grass Bromus—Ky Blue	\$60.00
6F	Moist Alkaline	POLO Seaside	Red Fescue—Ky. Blue—Red Top	\$40.00
7F	Moist Alkaline	TENNIS Tough Turf	Fescue—Blue Grass Red Top	\$50.00
GGG	Dry Sandy Acid	ROUGH GOLF		\$40.00

STRAIGHT SEEDS FOR BLENDING

No Trade discount on above

		Per 100 lbs.	
		5 Bag Lots	Less Than 5 Bag Lots
KY. BLUE GRASS—24-lb.	90%	\$18.50	\$23.50
23-lb.	86	16.50	21.50
21-lb.	80	15.50	20.50
19-lb.	75	15.00	20.00
CANADA BLUE GRASS.	85	16.00	21.00
RED TOP FANCY.	98	19.00	24.00
	95	17.00	22.00
	90	15.00	20.00
	85	14.00	19.00
Unhulled.	60	10.00	15.00
	43	8.00	13.00
	25	6.00	11.00
Chaff Bright.		5.00	10.00
RYE GRASS—Domestic.	98	6.00	11.00
Italian.	98	14.00	19.00
English.	98	14.00	19.00
Paceys.	98	16.00	21.00
FESCUE—N. Z. Red Chewings.	98	35.00	41.00
Red European Creeping.	80	45.00	50.00
Hard or Sheeps.	80	18.00	23.00
Fine Leaved.	80	24.00	29.00
Meadow.	95	12.00	17.00
ORCHARD GRASS.	90	12.00	17.00
POA TRIVIALIS—Rough Stalked Meadow.	90	18.00	23.00
POA NEMORALIS—Wood Meadow.	80	30.00	35.00
CRESTED DOGSTAIL.	98	24.00	29.00
BERMUDA GRASS.		22.00	27.00
BROMUS INERMIS.	98	22.00	27.00
POA ANNUA.		45.00	50.00
TIMOTHY—Fancy.	99½	6.00	11.00
Fancy.	99	5.00	10.00
Medium.	85	4.50	9.50
Mixed with White Clover.	85	4.50	9.50
White Clover—Extra Sunshine.	98	50.00	55.00
Medium Venus.	98	40.00	45.00
Mixed with Timothy Moon.		35.00	40.00
BENT GRASSES—			
So Germ. Mixed.	70	70.00	75.00
	80	80.00	85.00
	90	90.00	95.00
Rhode Island—Colonial N. Z.	98	85.00	90.00
Prince Edward Island.		100.00	105.00
Coos Seaside Maritima.		110.00	132.00
Northland Maritima Canadian.		125.00	150.00
Velvet.		500.00	505.00
YARROW.		100.00	105.00

HE—Who is lost, can hesitate no more!

Ambition—is a dream of future satisfaction.—(Fred Radway).

Tear off here and mail—no stamp necessary.

New Jersey State Lawn Formulas as per Rutgers College

HHH	All Soils	N. J. Standard #1 Without Clover	\$35.00
		With Clover	\$35.00
L	Acid Dry	N. J. Finest Qual. Turf #2	\$65.00
M	Alkaline Wet	N. J. Shady Areas #3 Cemeteries	\$40.00
N	Sandy Acid Poor	N. J. Poor or Sandy Soil #4	\$45.00

Radway's

Date

Dear Sirs: Please ship the following order:

.....Bags.....Lbs.....
 " "
 " "
 " "

.....Cases.....
 for shipment (on or about) prompt,

Yours truly,

Name

Address



TESTED **Radway's** SEEDS
N. Y. C.

GRASS SEED
IN
"WINDOBAGS"
REG. APPLIED FOR U. S. PAT. OFFICE

See it — Buy it!

LAWNMAKER
BRAND REG.

FRED RADWAY SAYS:
This is the beginning of the end—of
"The Sawdust Trail"

"Chaff—sand and sawdust versus
Highgrade tested but expensive
lawn seed"

"Quality will survive the pain suffered by
the Pocketbook"

Therefore our SEEDS ARE NOT THE
CHEAPEST—in price!

THE BEST NEVER ARE!!



FIRST CLASS
Permit No. 1648
(Sec. 384½, PL & R)
New York, N. Y.

BUSINESS REPLY CARD
NO POSTAGE STAMP NECESSARY IF MAILED IN THE UNITED STATES

2c.-POSTAGE WILL BE PAID BY—

I. L. RADWANER SEED CO., Inc.
115 BROAD STREET
NEW YORK, N. Y.

Lawn Grass booked for spring delivery at list prices. Markets are firm and may be higher. Send in your order now. Terms on our regular brands of mixed lawn seed: 60 days net; cash in 10 days, 1½% discount.

Lawn Grass and Certified Bent Seed are the most profitable items retail seed dealers can handle. Lawns seeded with Prince Edward Island Bent, wherever they have been fertilized and given moderate water and attention, have withstood drought conditions.

Prices quoted in both columns are for full unbroken bags STRAIGHT OR ASSORTED LOTS of seed.

Broken packages charged higher than single bags. Parcel Post shipments charged at broken package prices or higher.

Seamless Bags—with Seed 38c each. Grass Seed-Burlap Bags included gross for net.

Lawn Grass Burlap Bags free, net weight when unpacked. No Bags returnable at full price.

These quotations are for dealers only, F. O. B. New York and subject to change without notice. All orders filled at our best price on day received.